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372/20

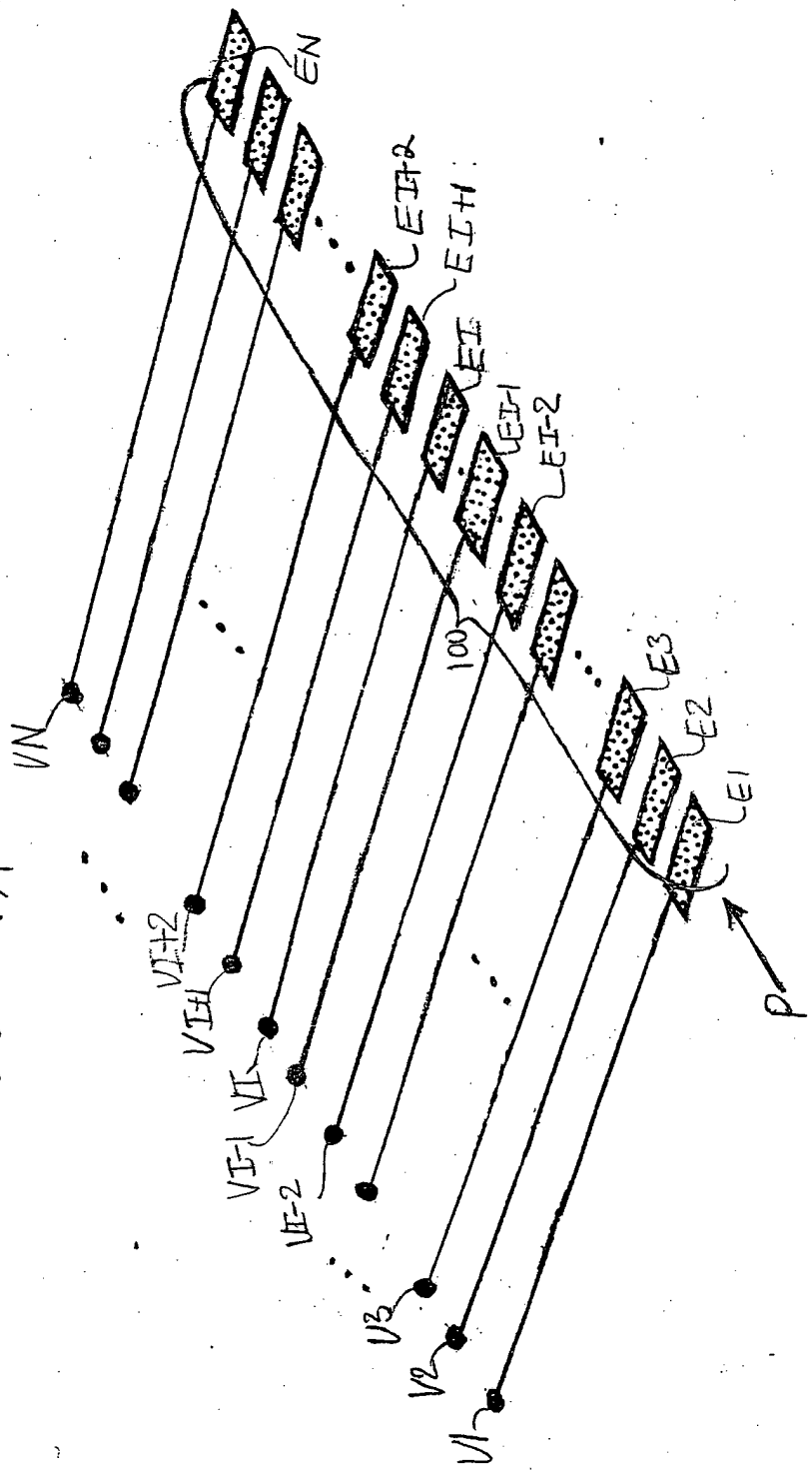
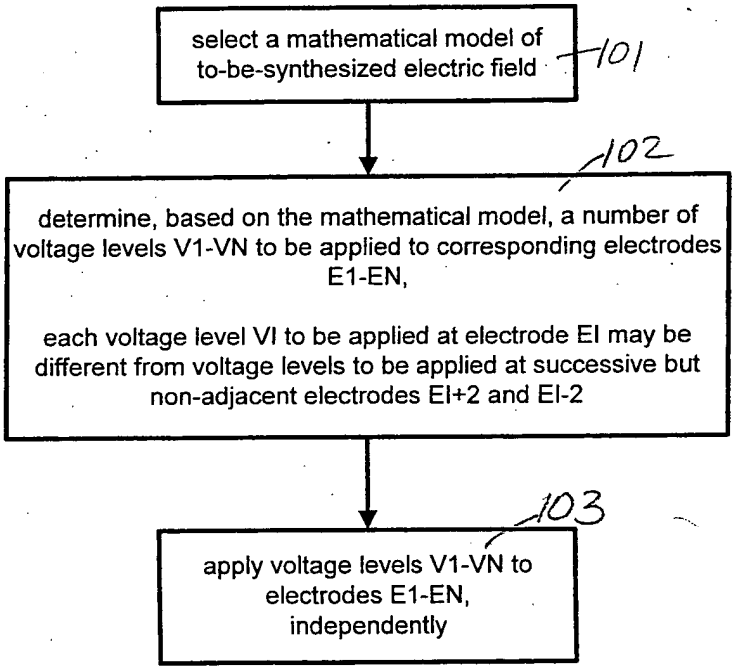


FIG. 1A

T00T60" 56th5660

FIG. 1B



T0007.00 - 09544955 - 091001

T0016D "5674566D

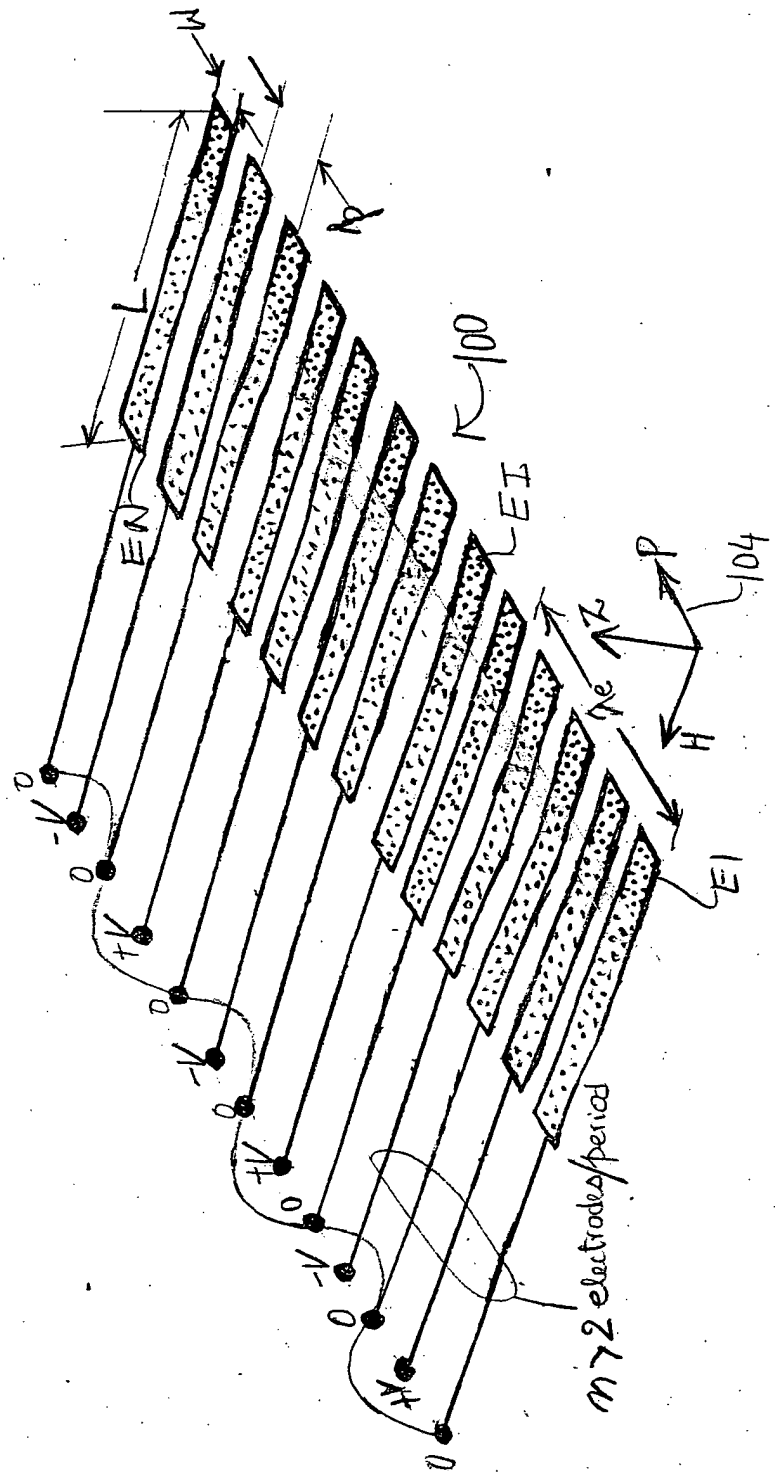
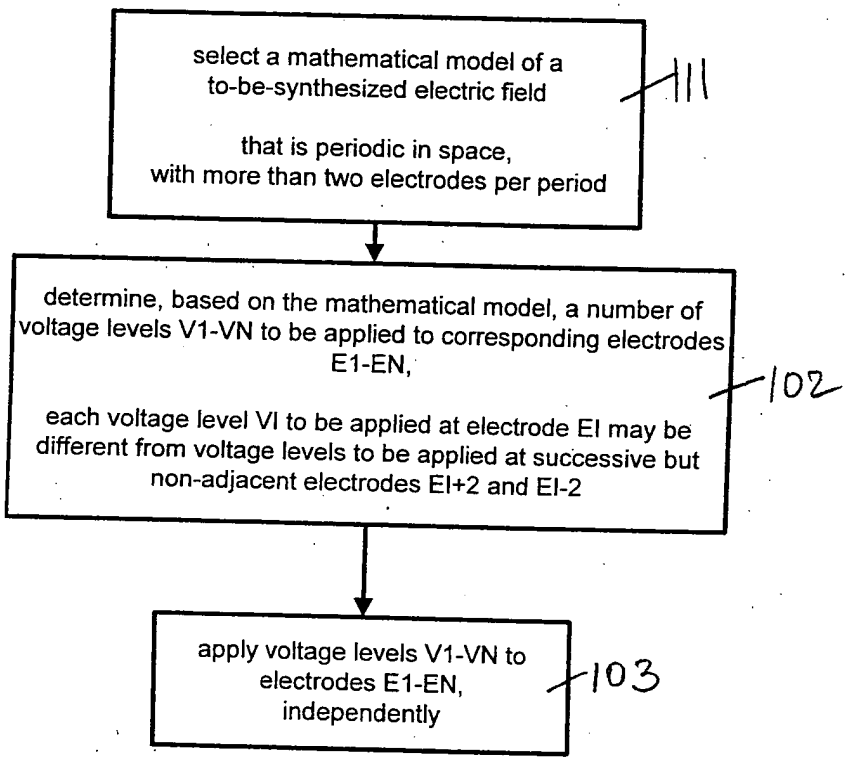
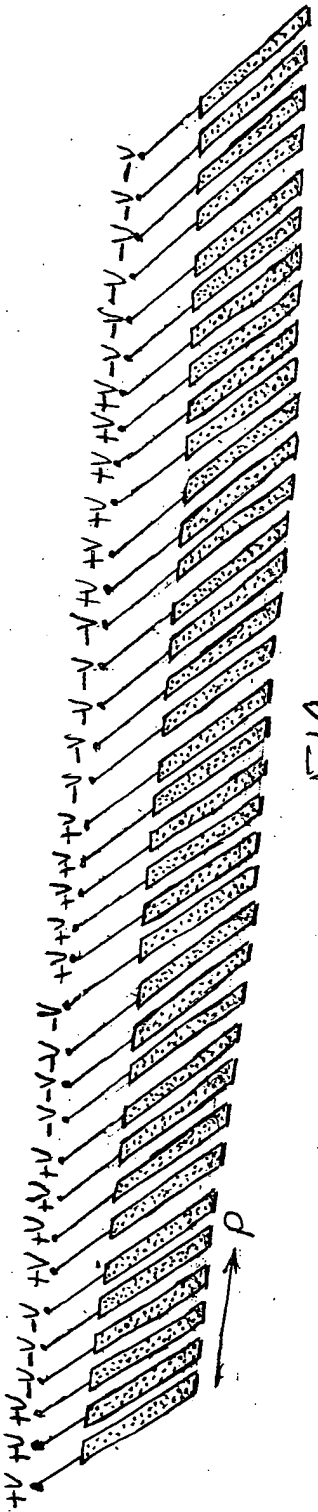


FIG. 2A

FIG. 2B



7007609-564+560


+V
+V +V -V -V
+V +V -V -V
+V +V -V -

T0076 "Sathya660

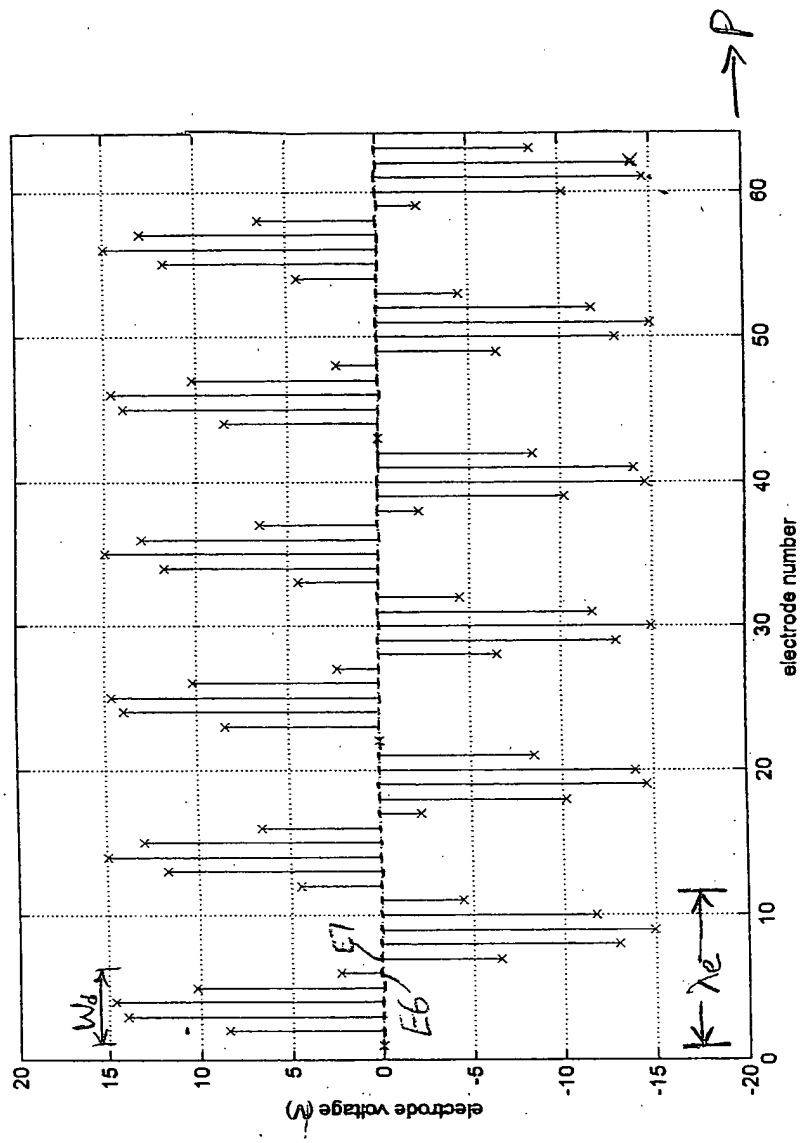


FIG. 3

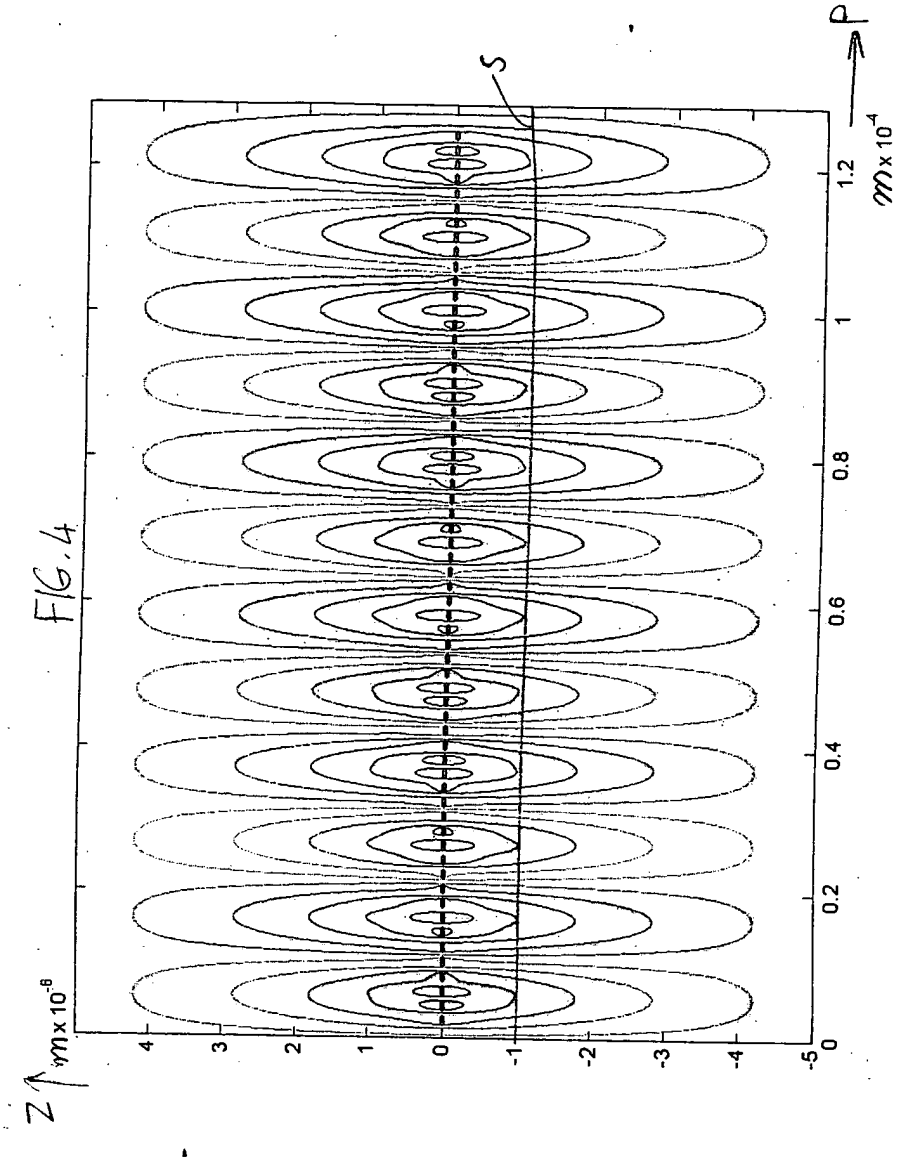


FIG. 4

09954959 "09/10/01

T00T60 "SA+5660

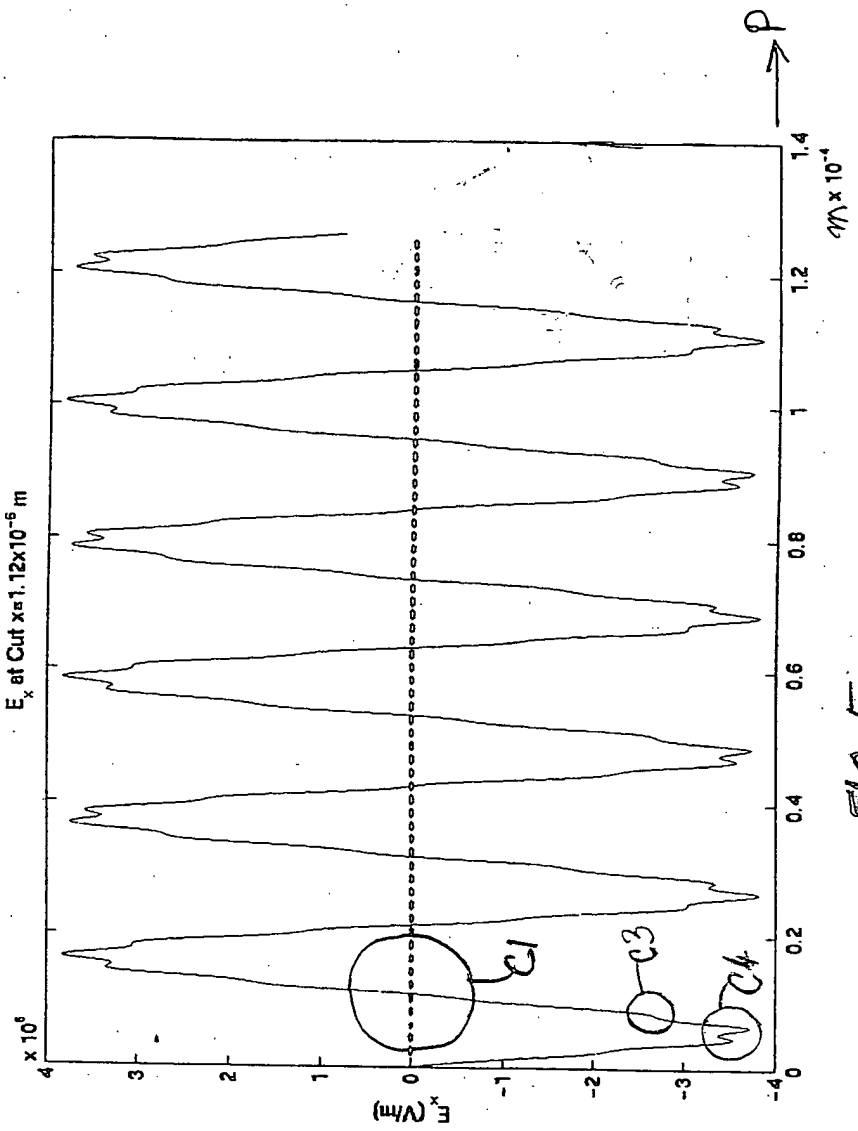


FIG. 5

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TOOT60 "56-th-5660

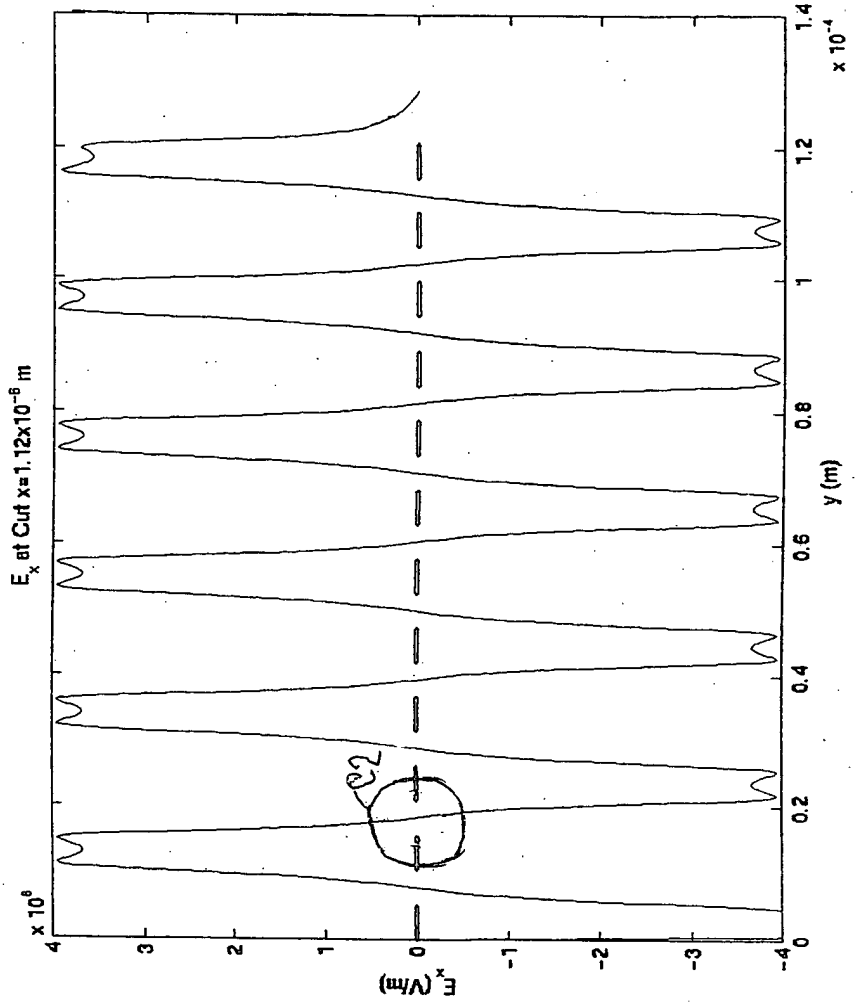


FIG. 6A (Prior Art)

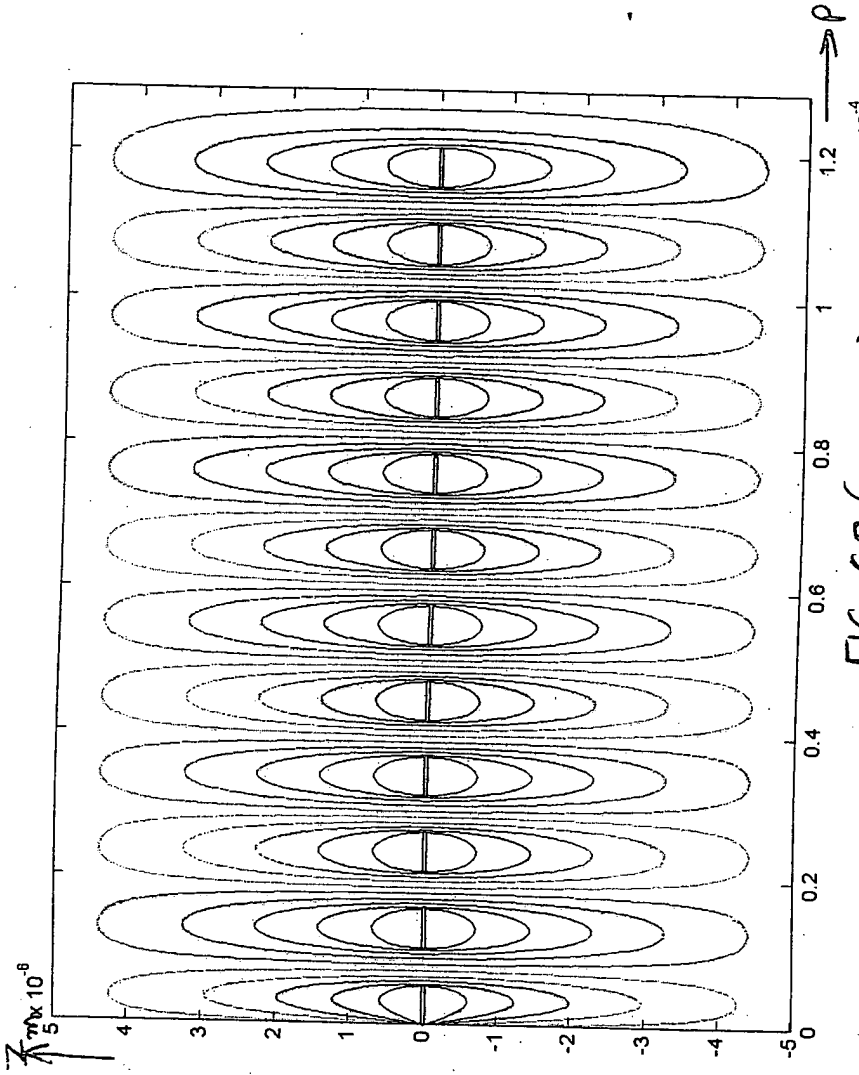


FIG. 6B (PRIOR ART)

T0010" 56-44560

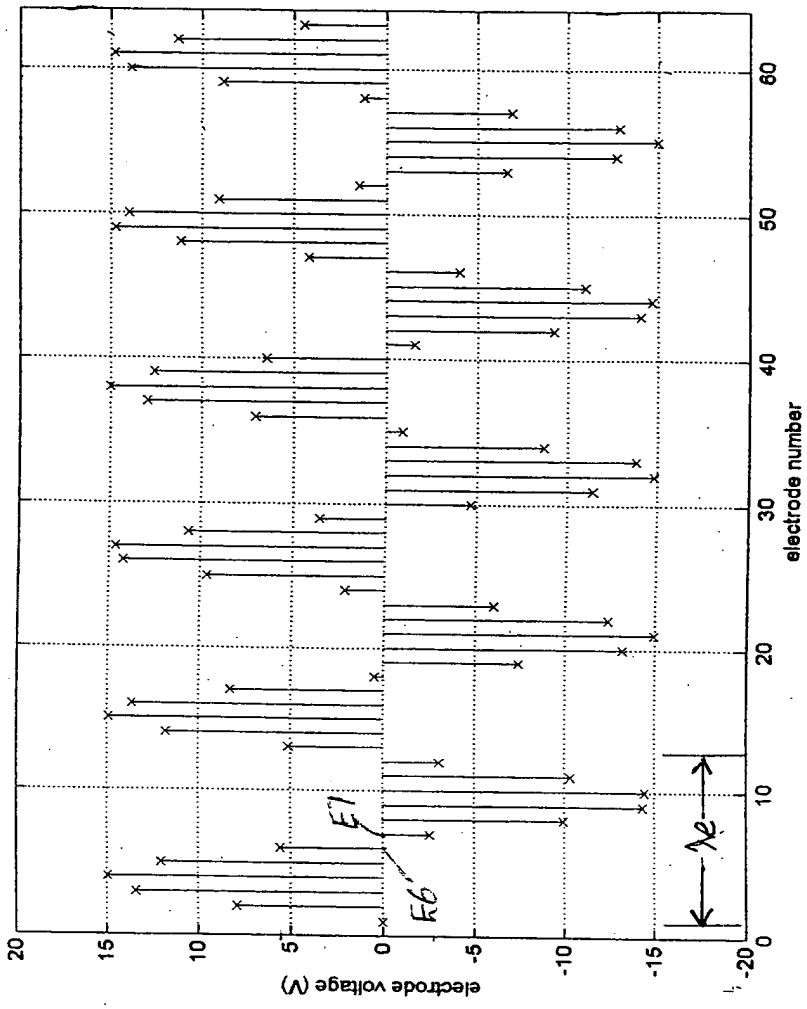


FIG. 7

FOOTLOO" 564556O

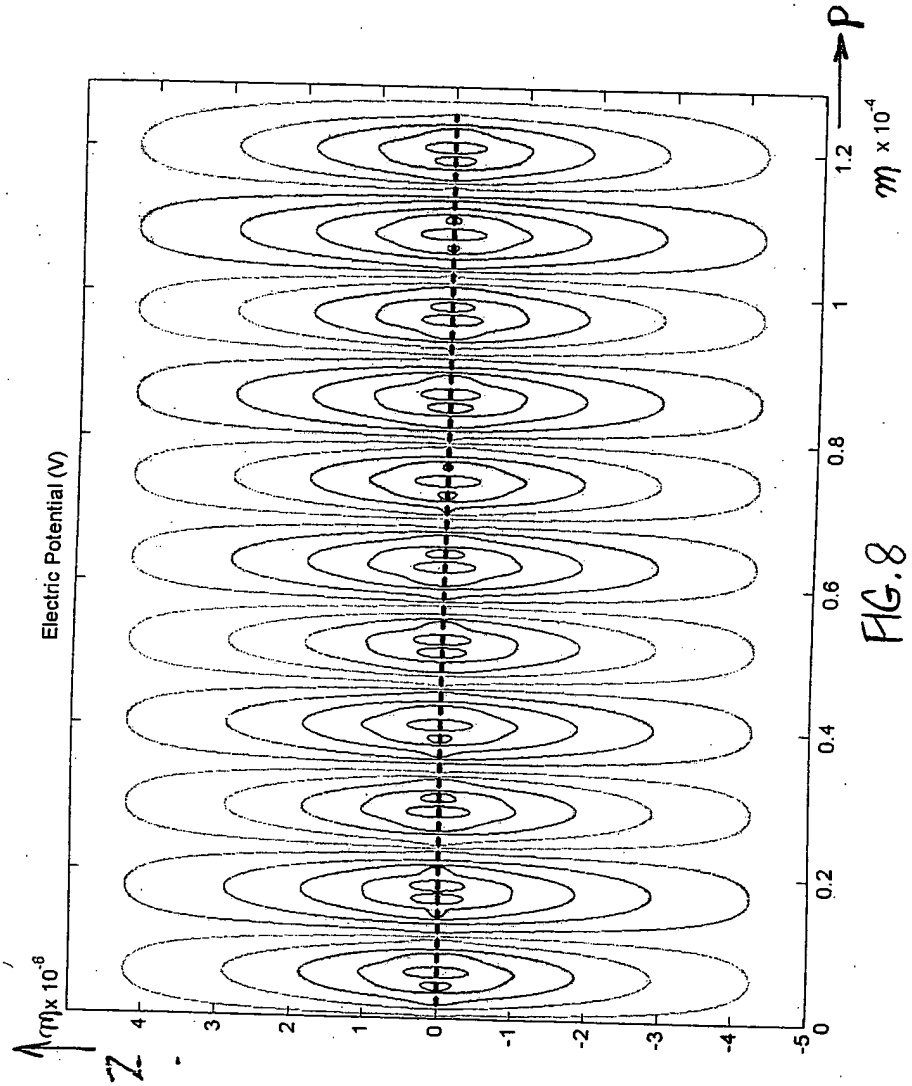


FIG. 8

T00T60" 564S960

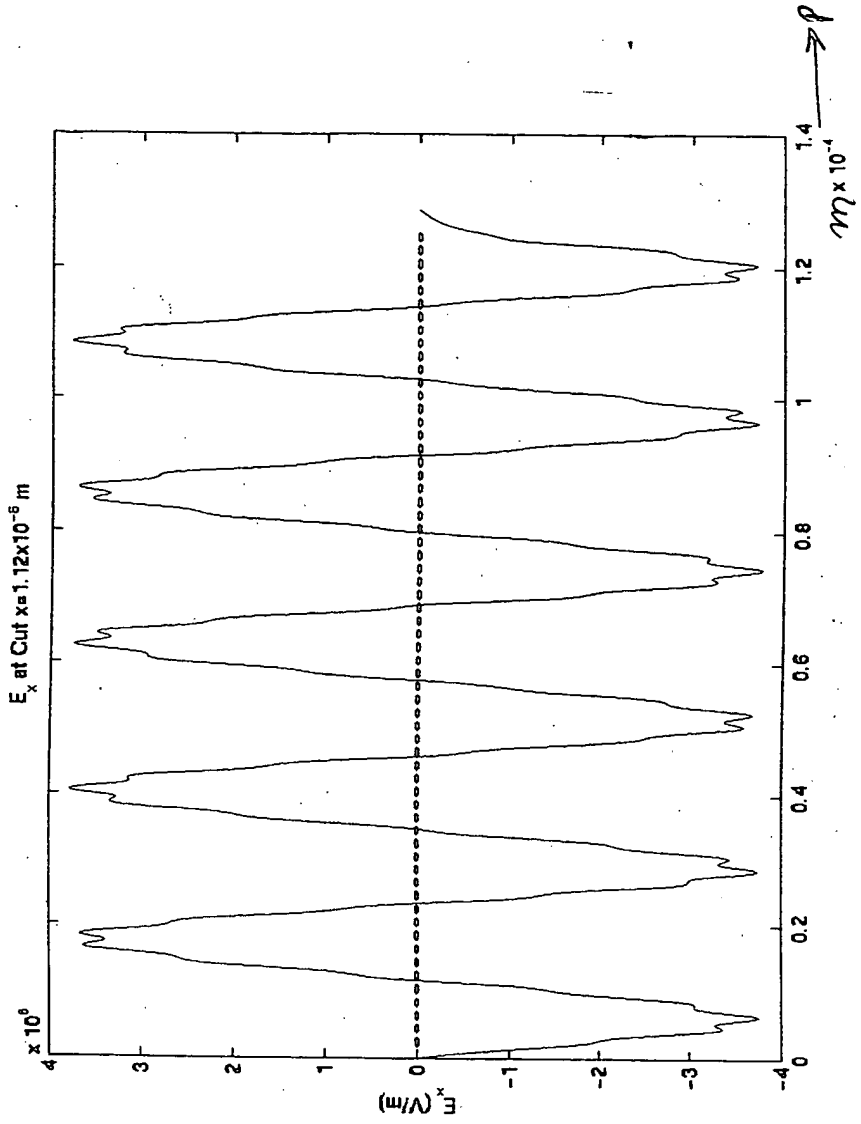


FIG. 9

T0070 "56th560

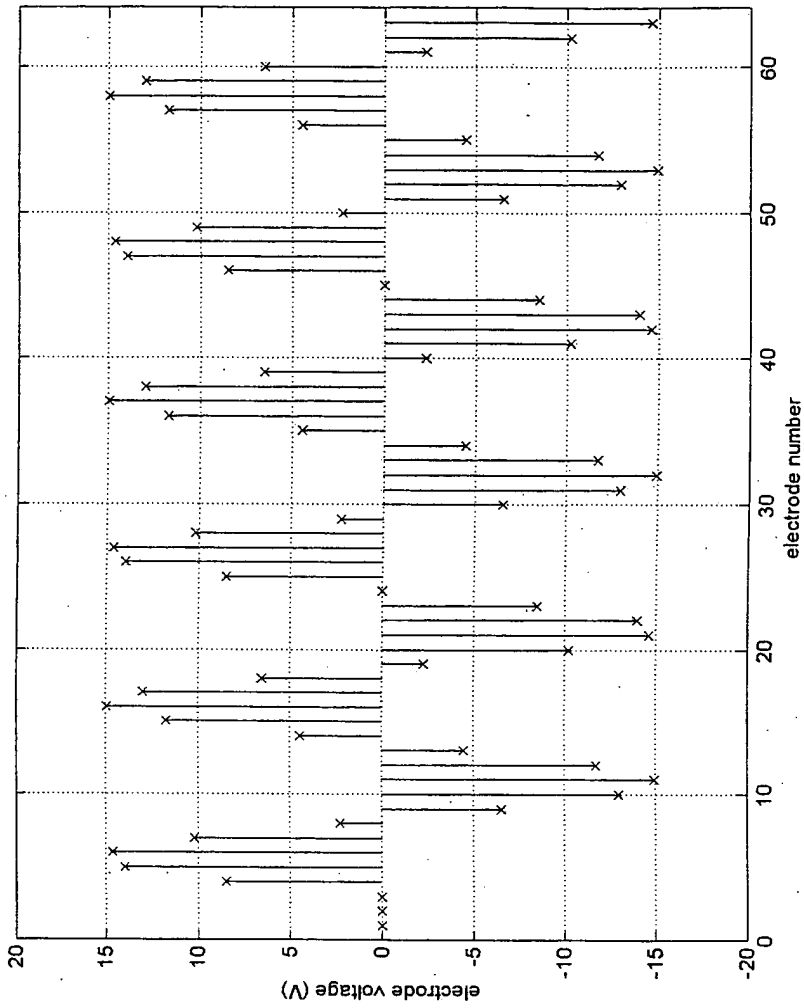


FIG. 10

T0010 "56th5660

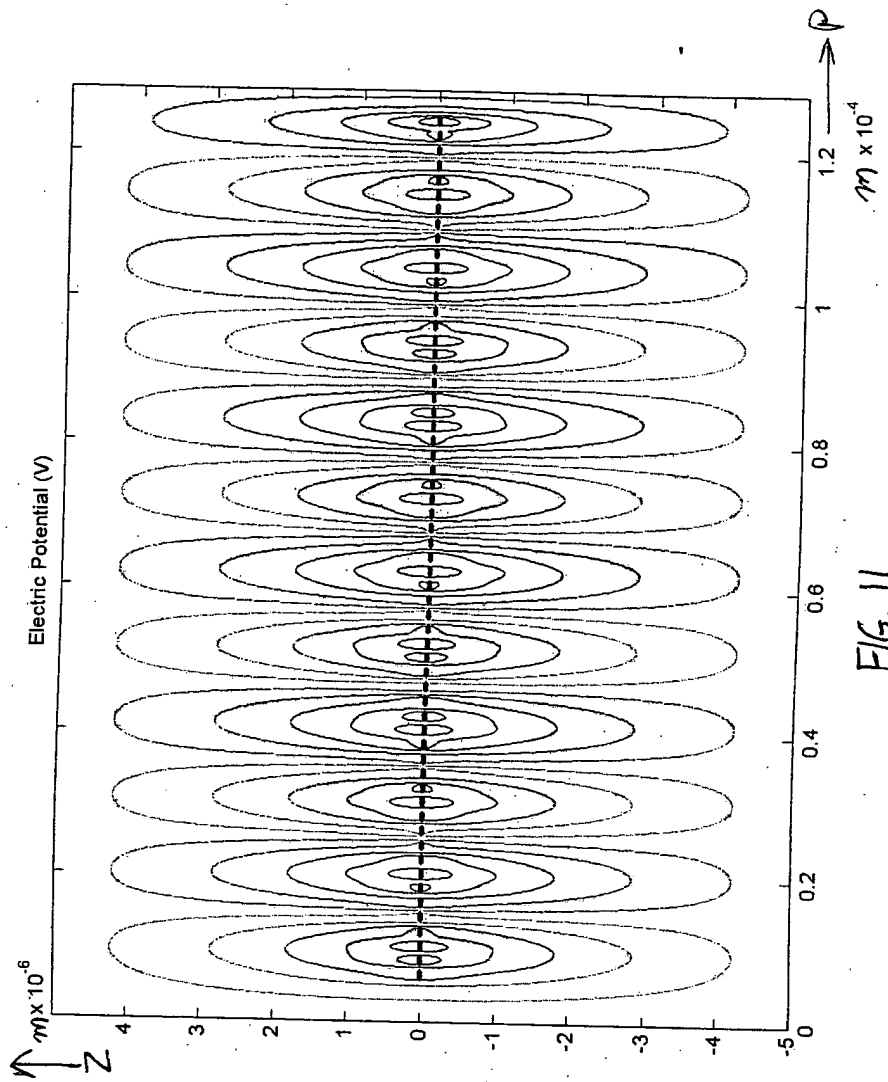


FIG. 11

TOOTSO" 56th5560

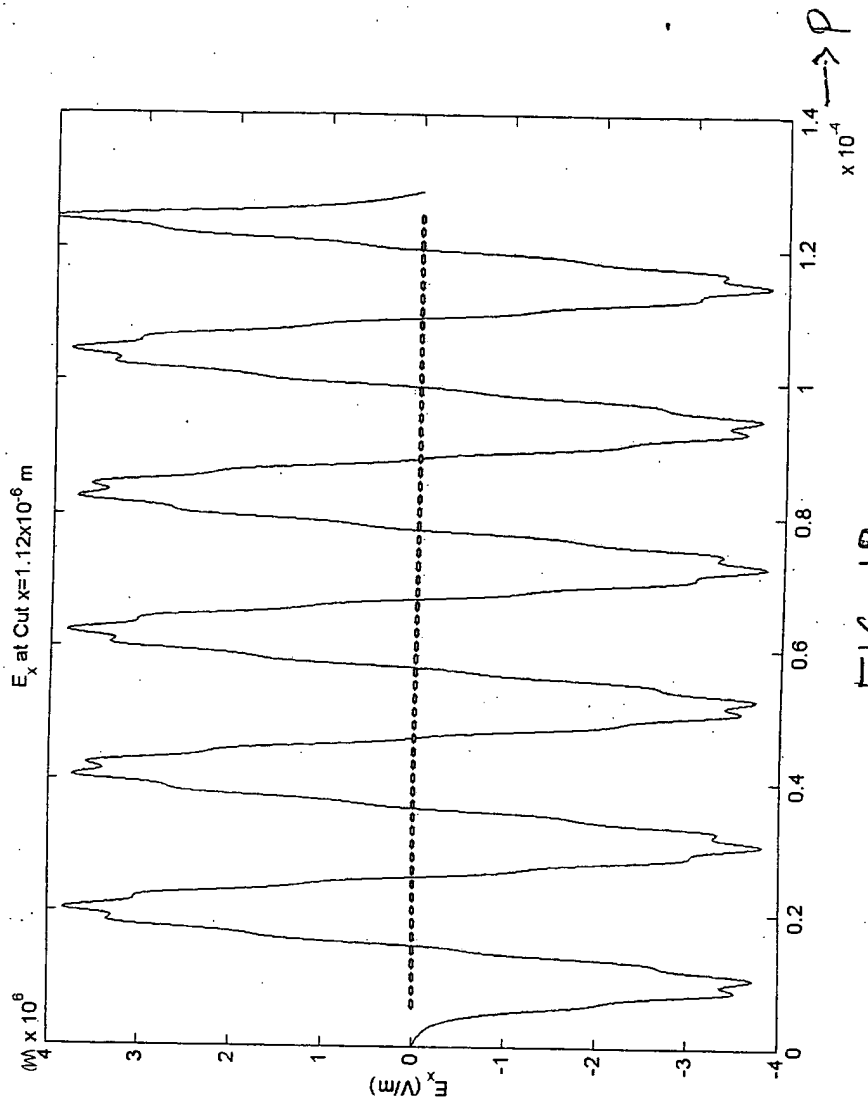


FIG. 12

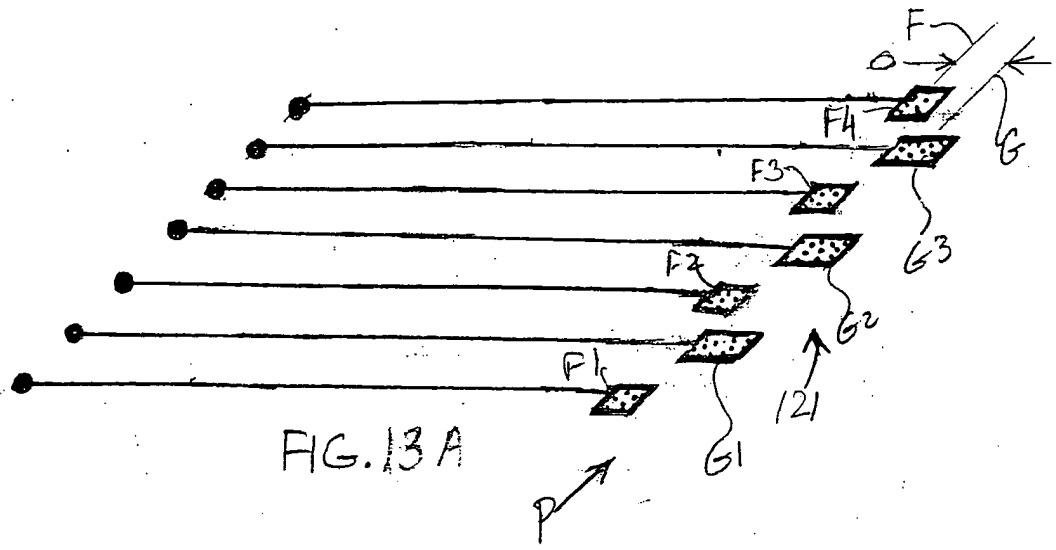


FIG. 13A

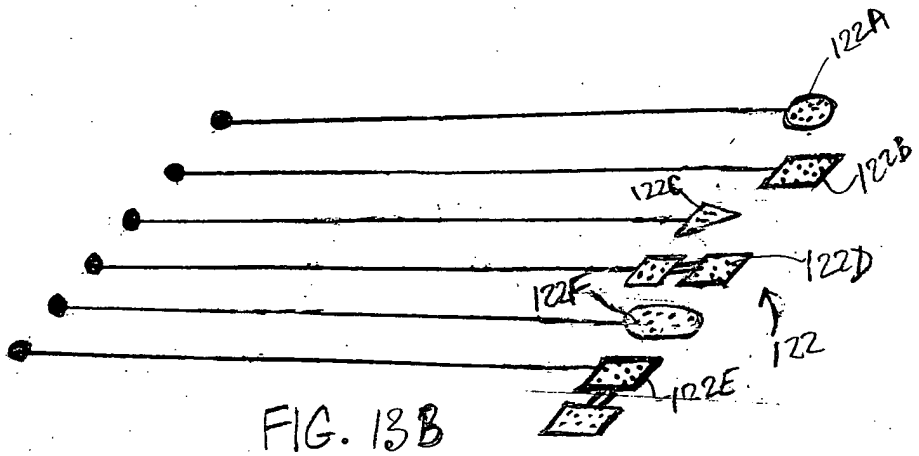


FIG. 13B

T0076 "56th5660

FIG. 14

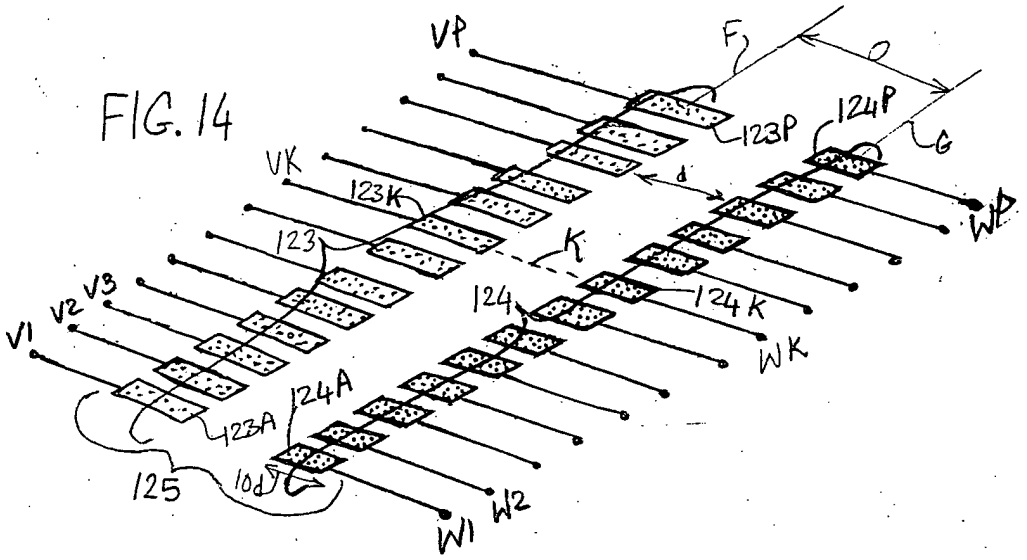
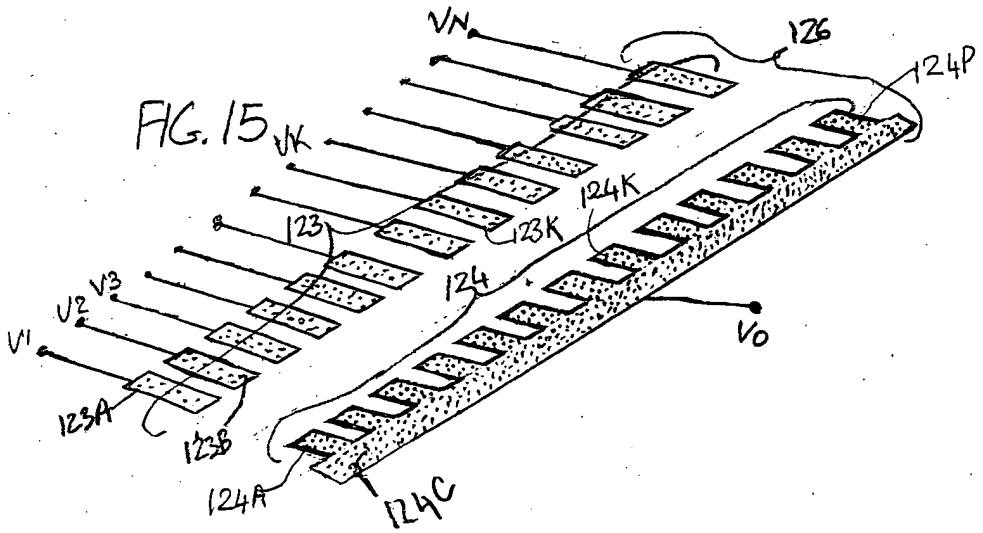


FIG. 15



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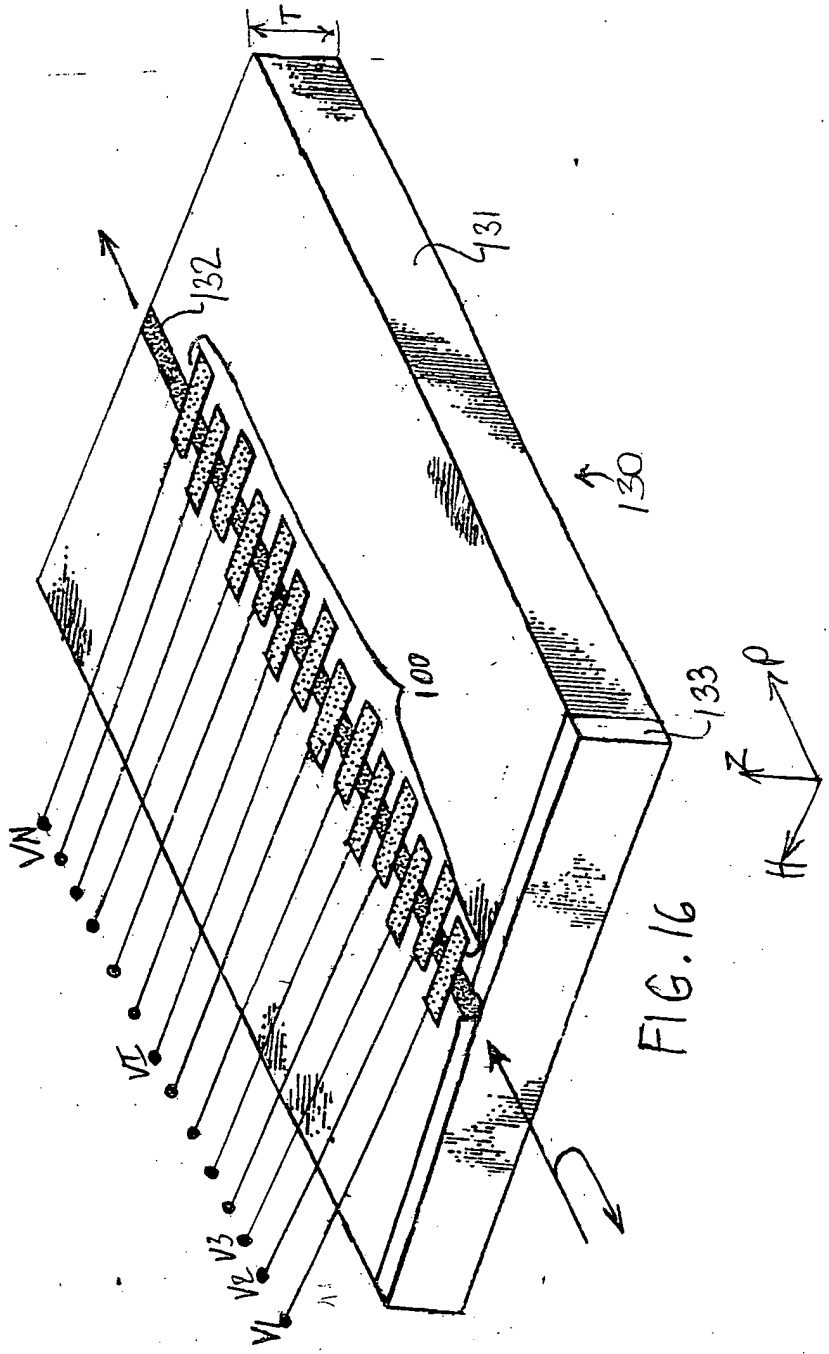


FIG. 16

T0076O - 56th5660

T0070"56th5660

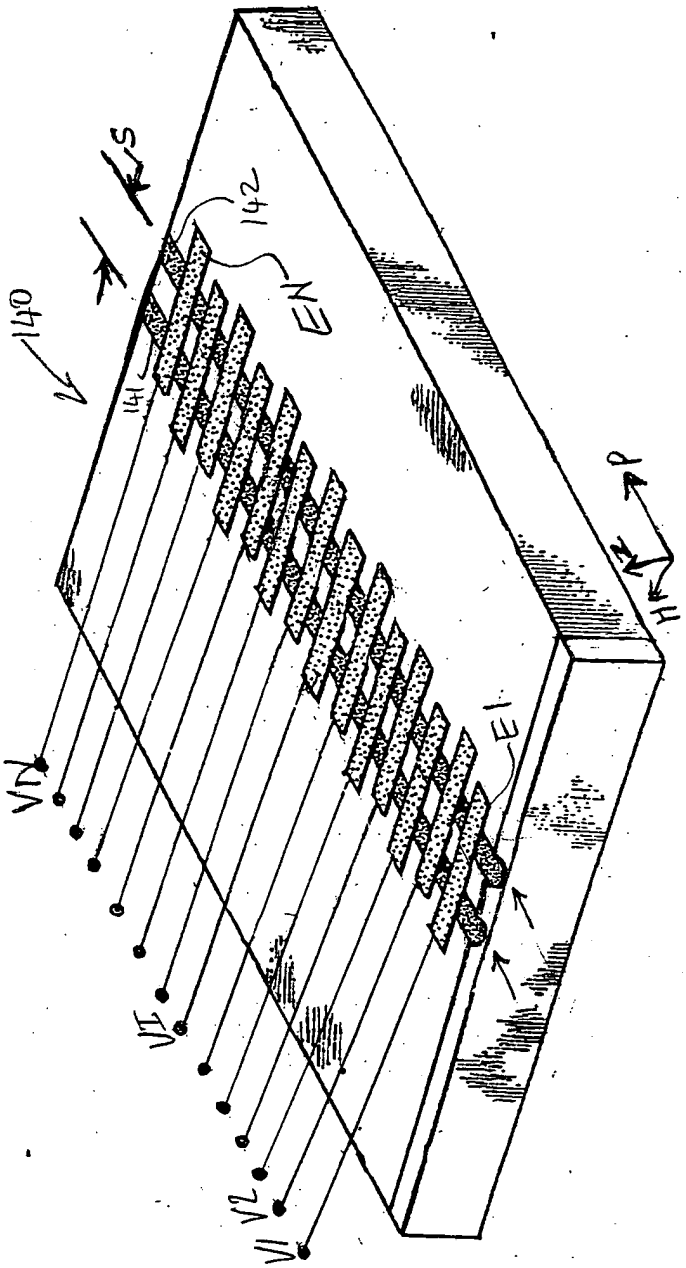


FIG. 17

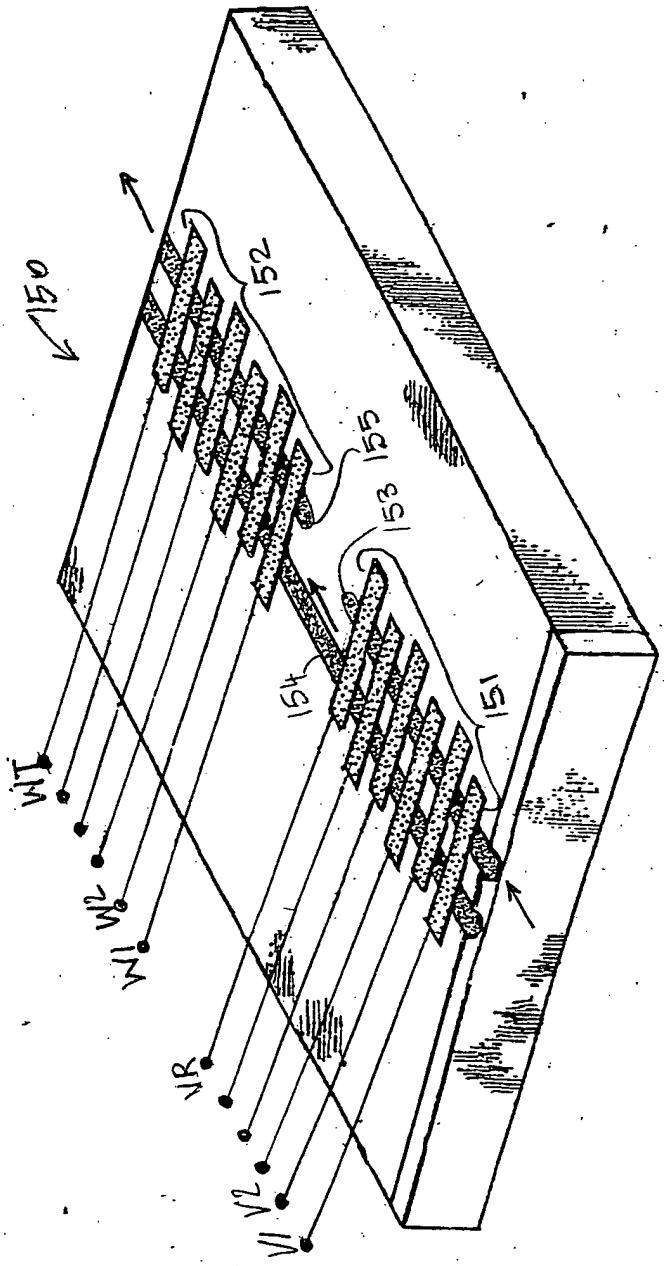
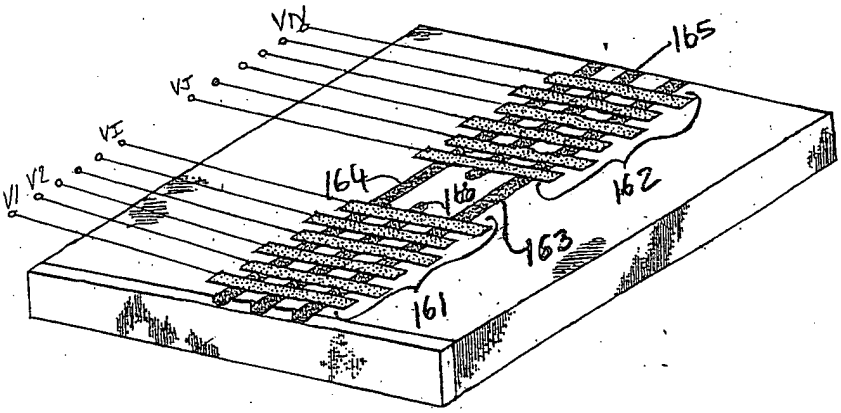


FIG. 18

T0070600 "56hh5660

FIG. 19



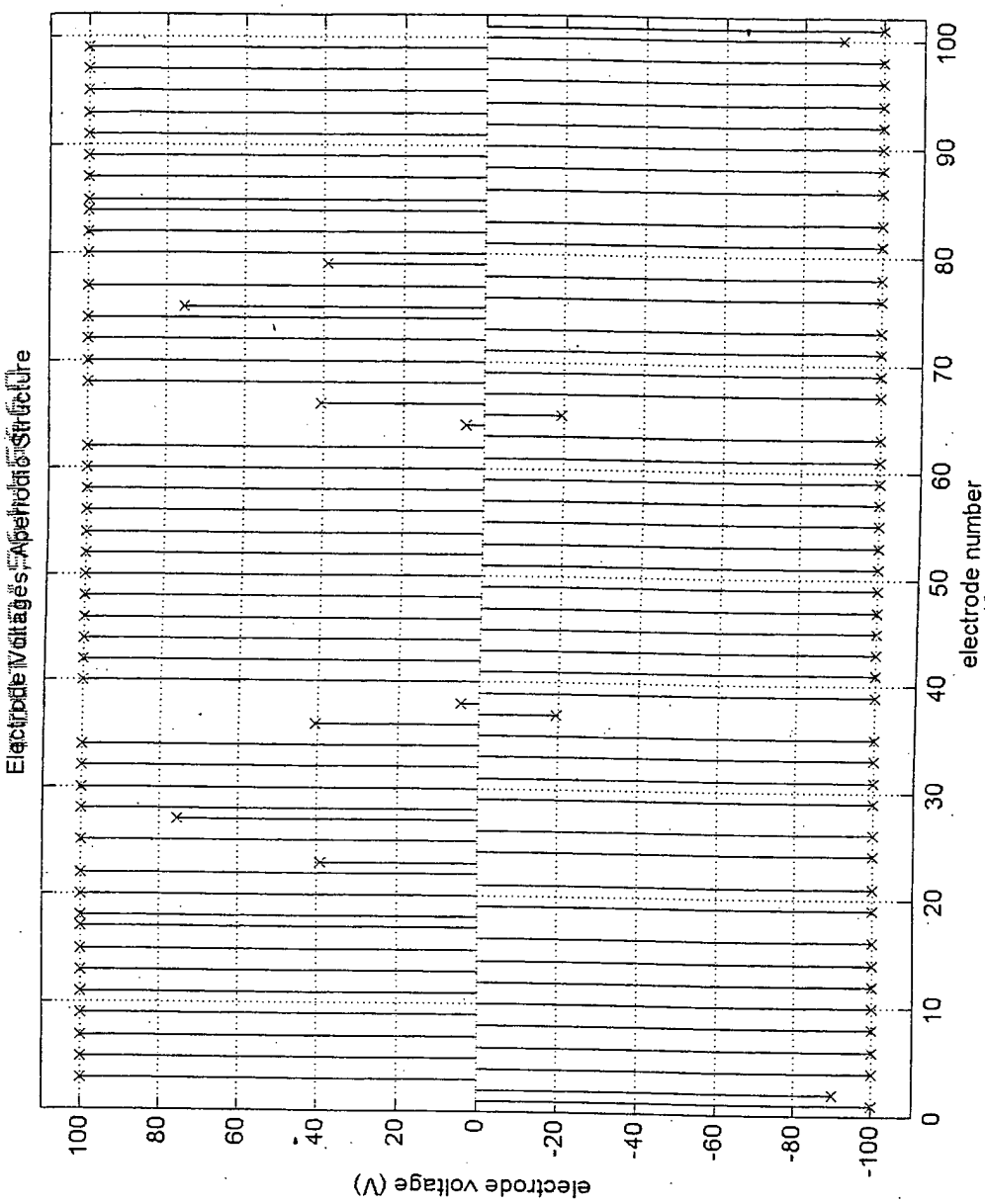

Electrode Voltages, Aperiodic Structure
electrode voltage (V)
electrode number
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
10
20
30
40
50
60
70
80
90
100

FIG. 20A

PRINT OF DRAWINGS
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T0076O "56445660

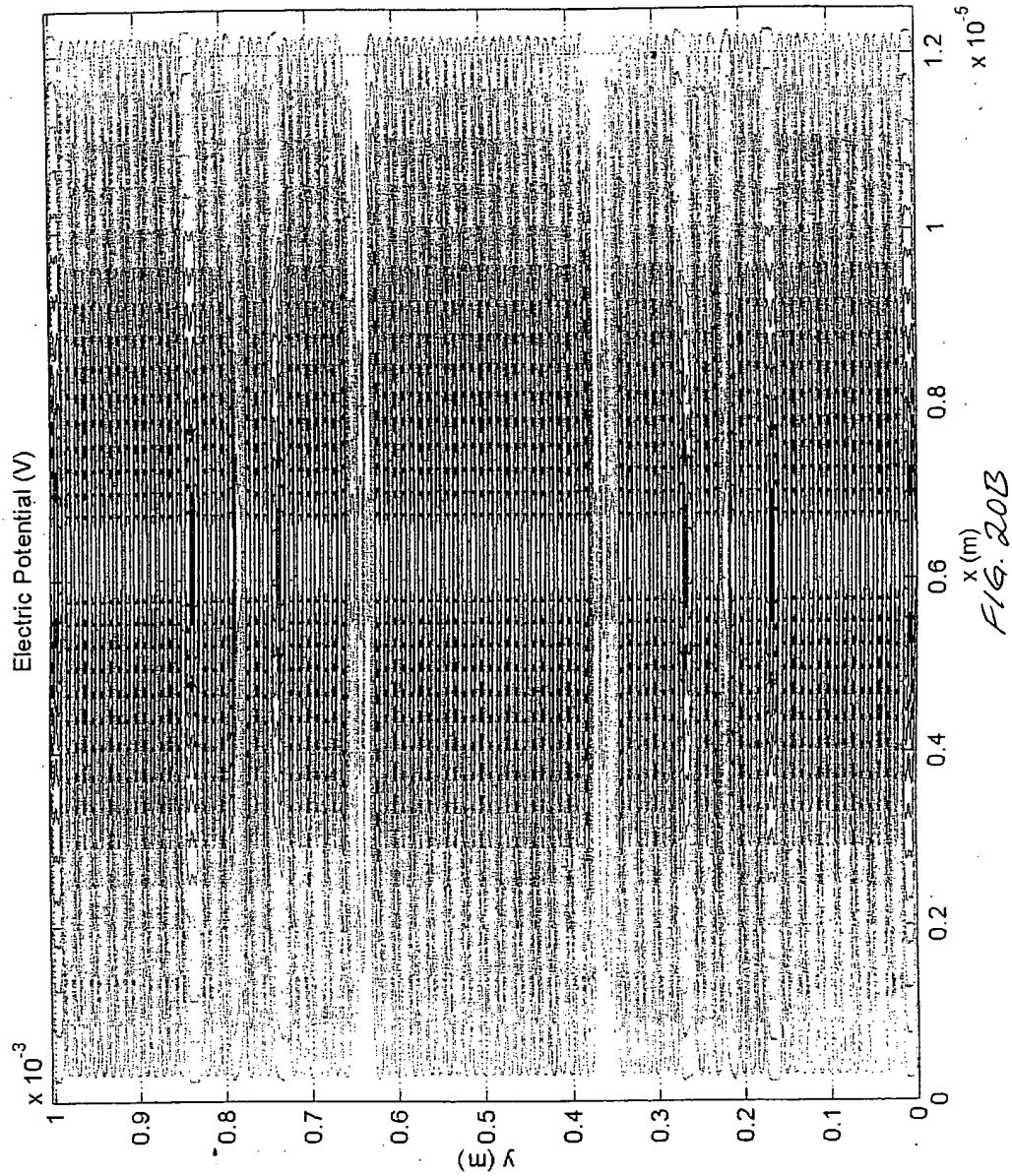

FIG. 2B

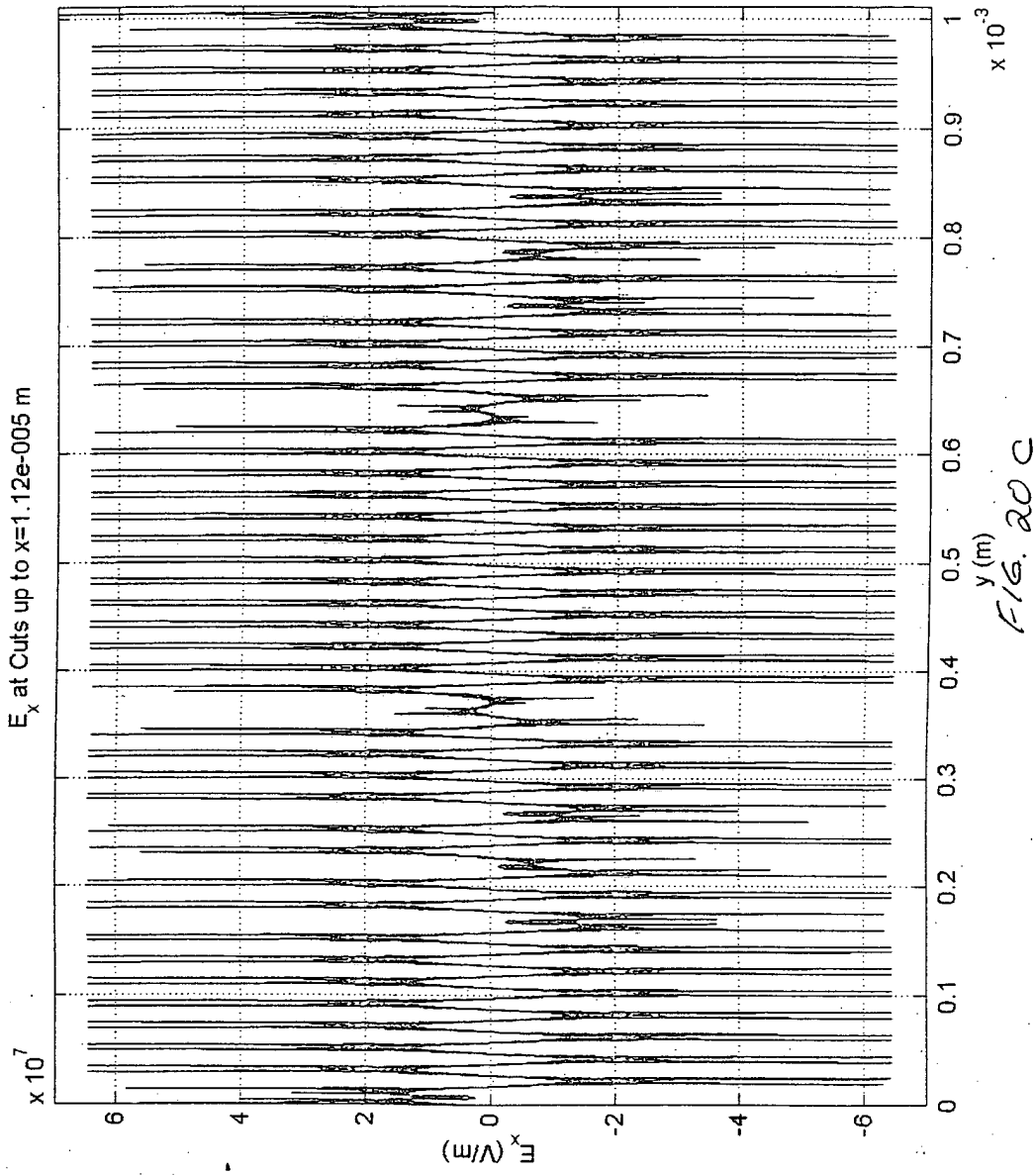
E_x at Cuts up to x=1.12e-005 m
x 10^7
6
4
2
0
-2
-4
-6
E_x (V/m)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
x 10^-3
y (m)

FIG. 20C

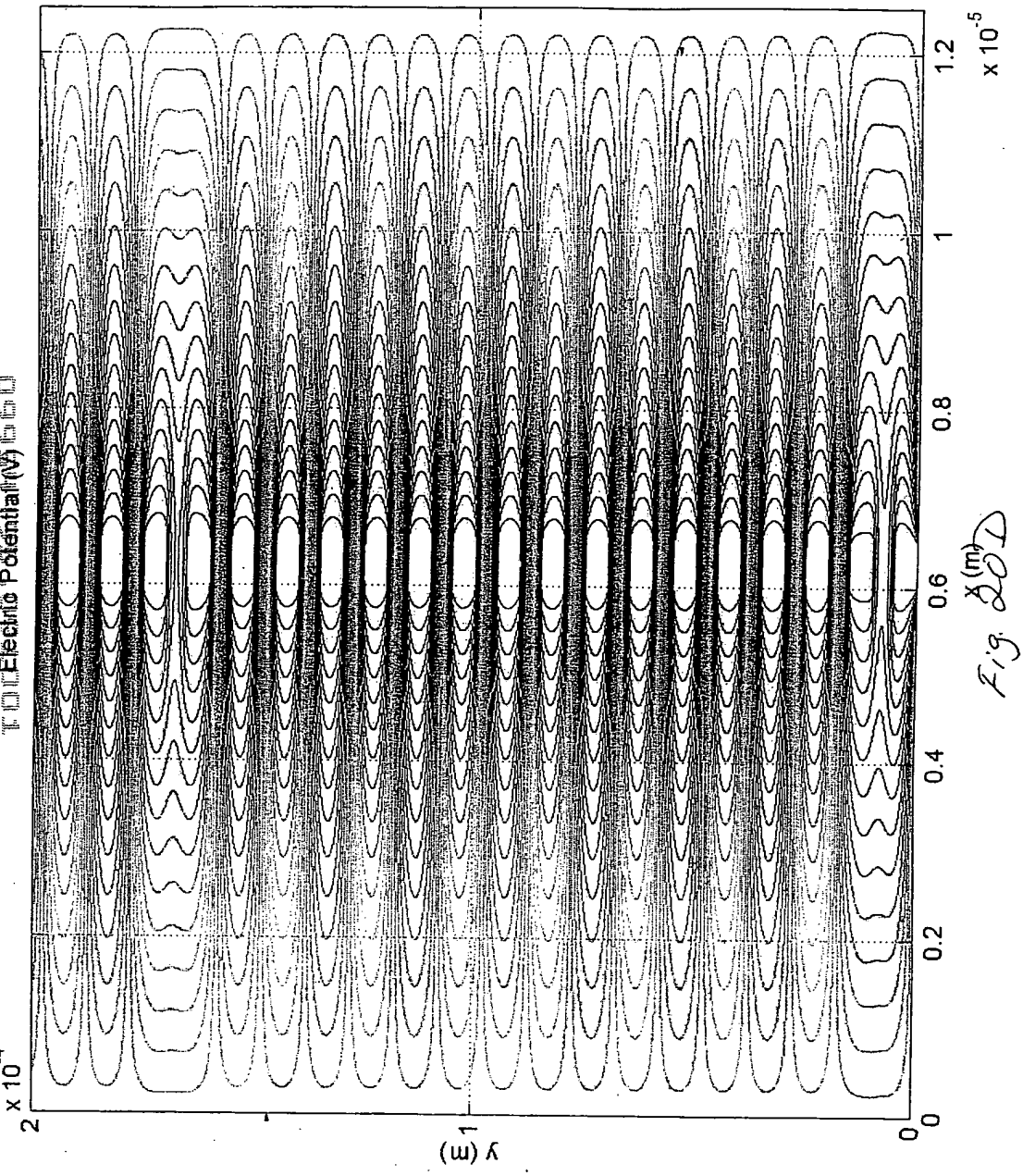

Fig. 20D

PRINT OF DRAWINGS
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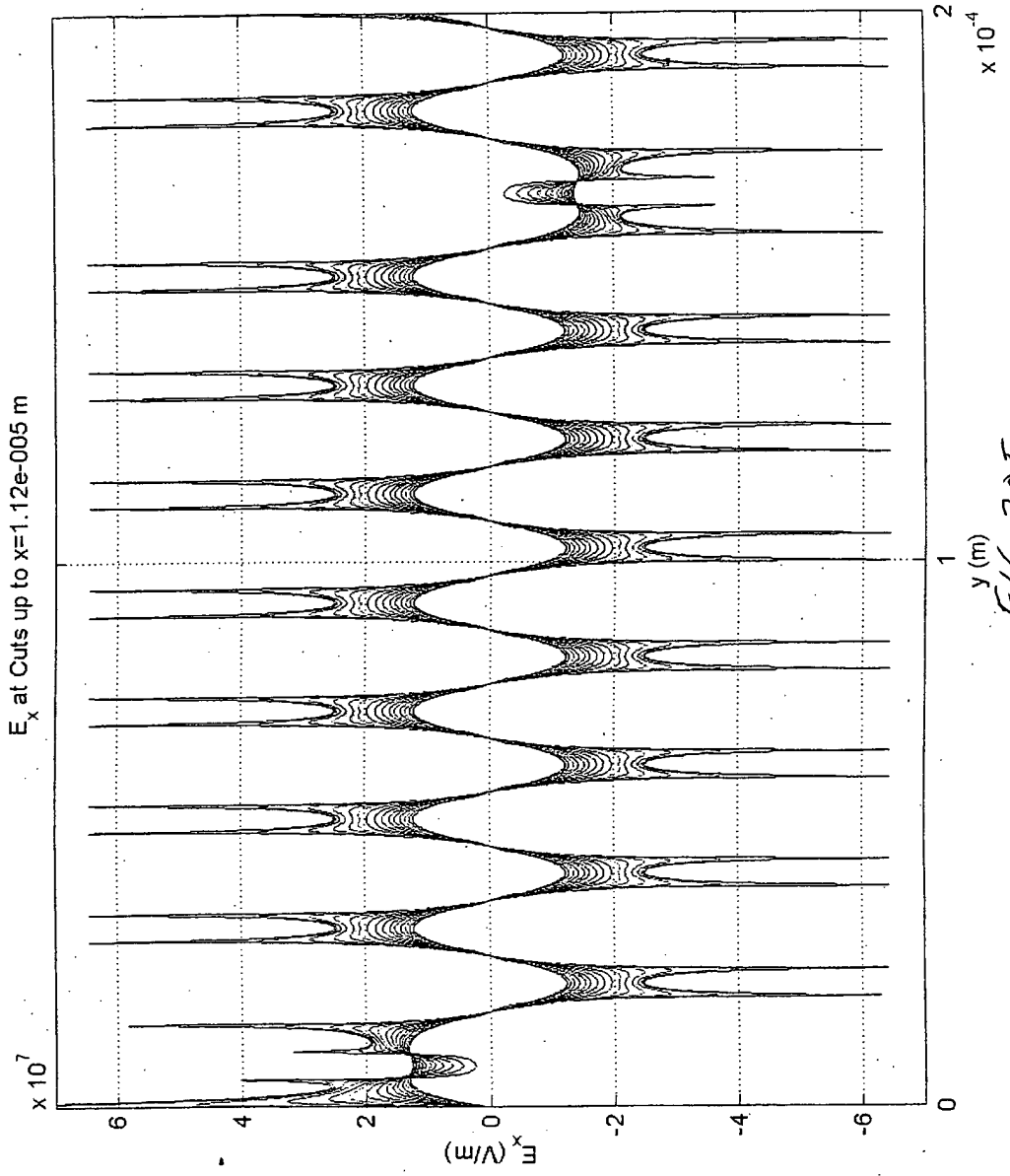


FIG. 20E

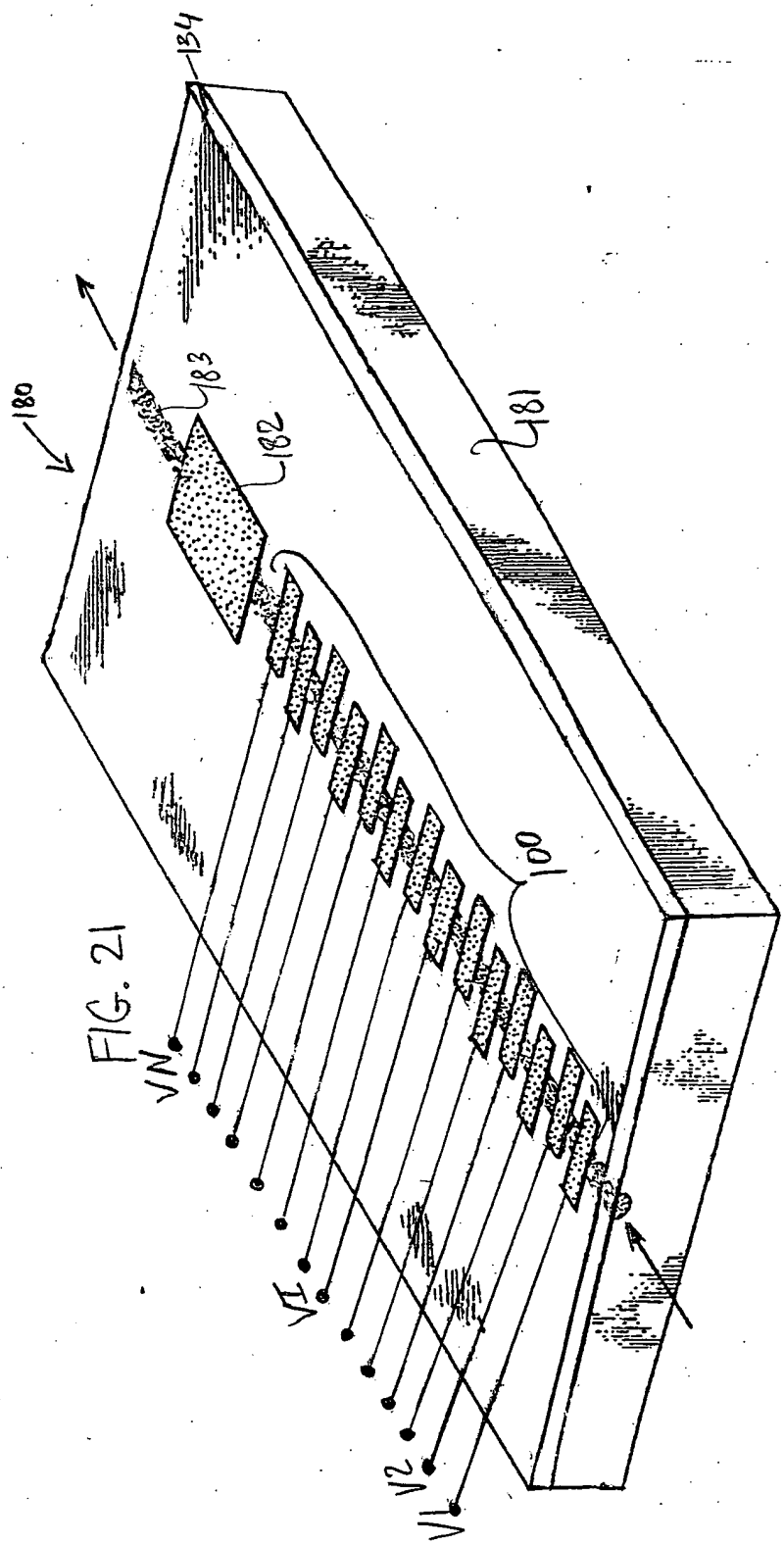


FIG. 21

T00T60"56th5660

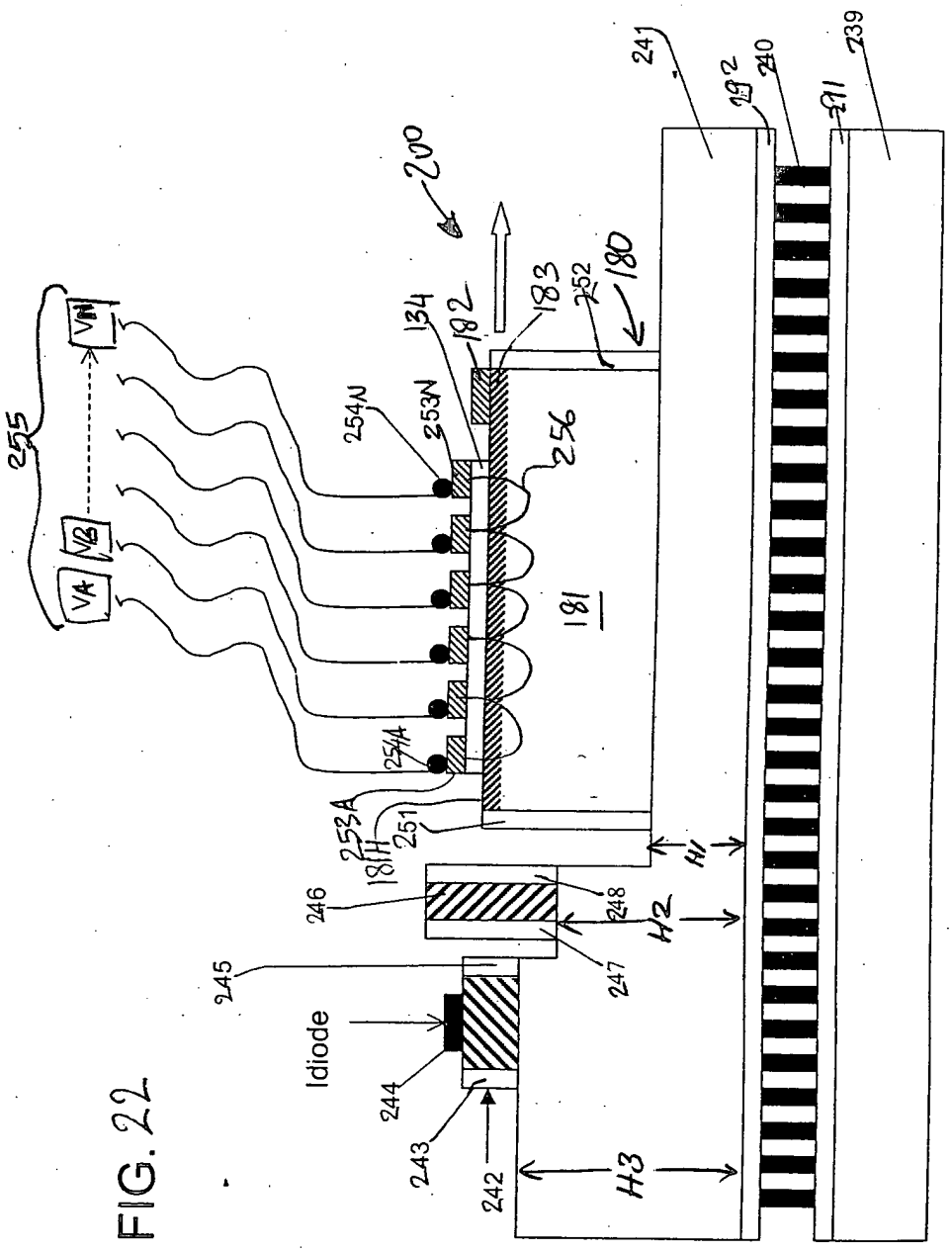

200
241
192
240
191
239
180
183
252
134
182
254N
253N
256
255
VN
VB
VA
181
254A
253A
181A
251
246
248
247
245
Idiode
244
243
242
H1
H2
H3

FIG. 22

FIG. 23

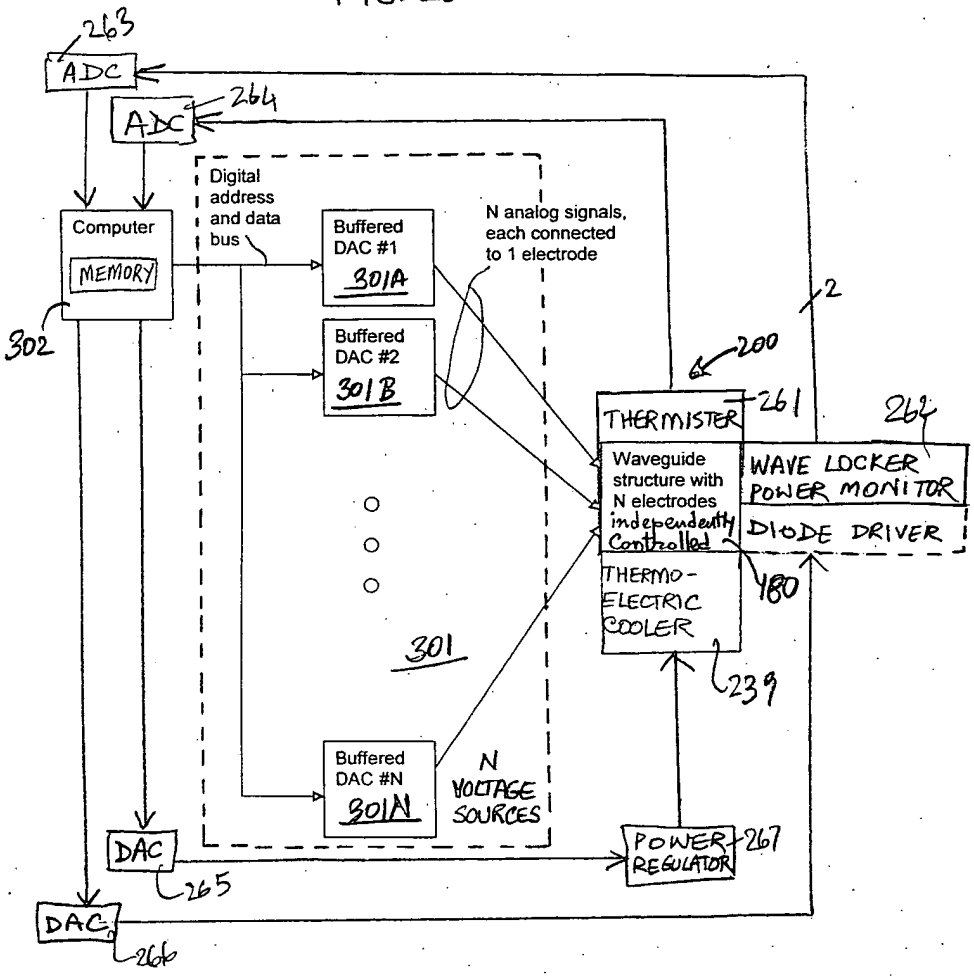
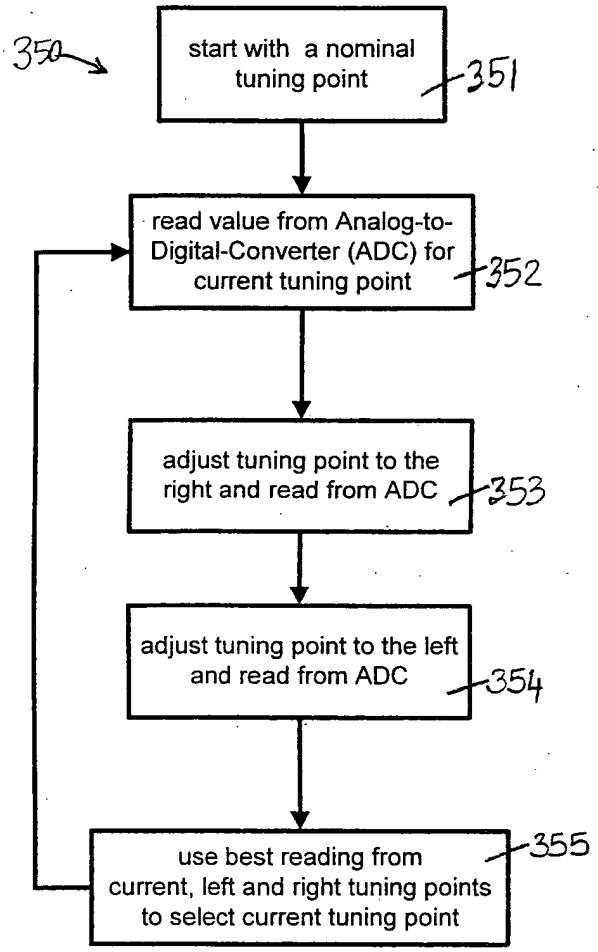

263
ADC
264
ADC
Digital address and data bus
Computer
MEMORY
302
Buffered DAC #1
301A
Buffered DAC #2
301B
Buffered DAC #N
301N
N analog signals, each connected to 1 electrode
N VOLTAGE SOURCES
301
2
200
THERMISTER
261
264
Waveguide structure with N electrodes independently Controlled
WAVE LOCKER
POWER MONITOR
DIODE DRIVER
180
THERMO-ELECTRIC COOLER
239
DAC
265
DAC
266
POWER REGULATOR
267

FIG. 24


350
start with a nominal tuning point
351
read value from Analog-to-Digital-Converter (ADC) for current tuning point
352
adjust tuning point to the right and read from ADC
353
adjust tuning point to the left and read from ADC
354
use best reading from current, left and right tuning points to select current tuning point
355

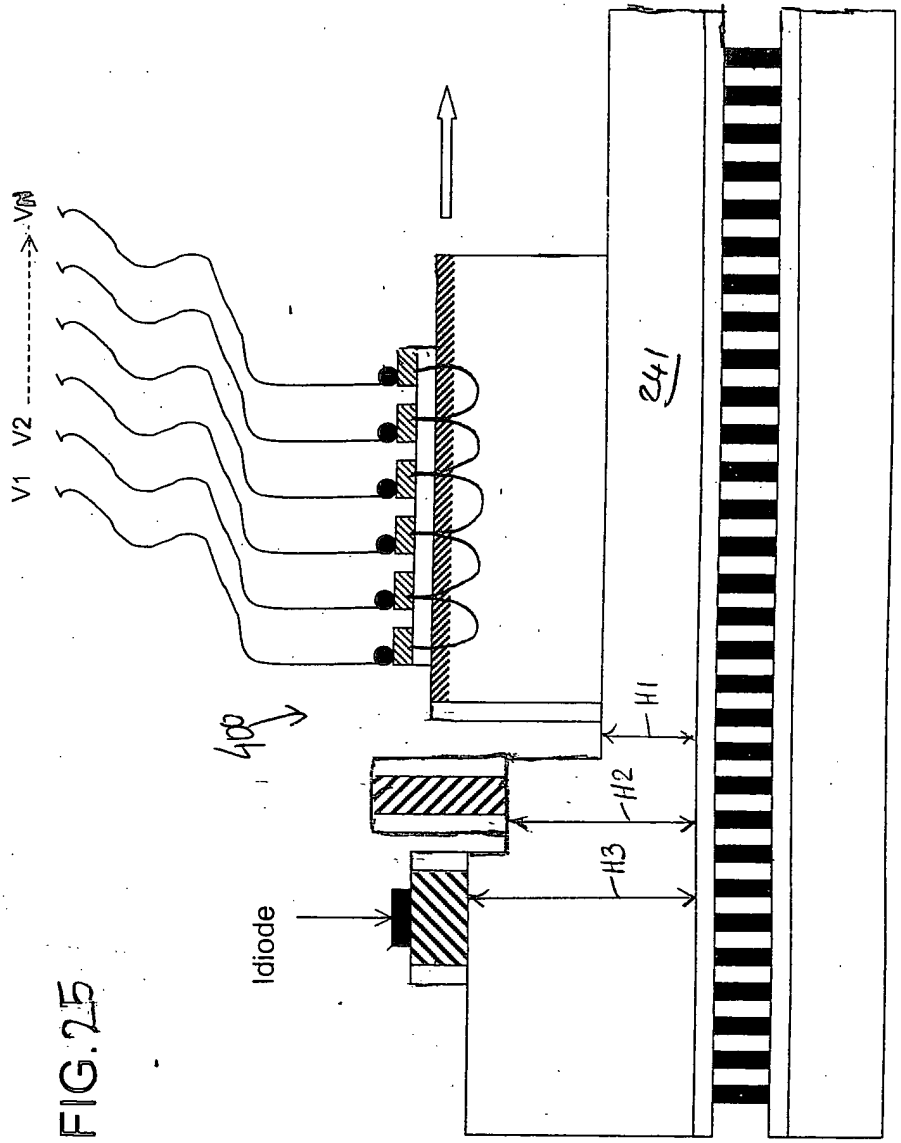


FIG. 25

10016054560 090104

FIG. 26

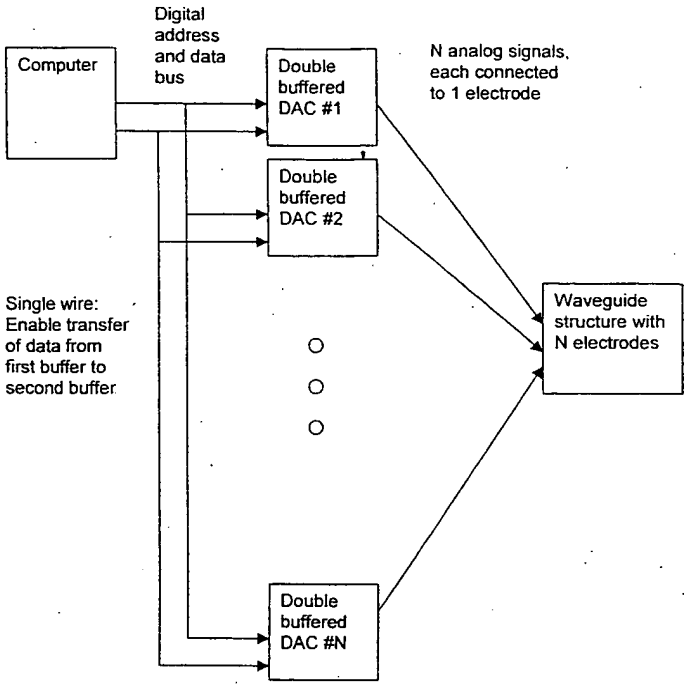
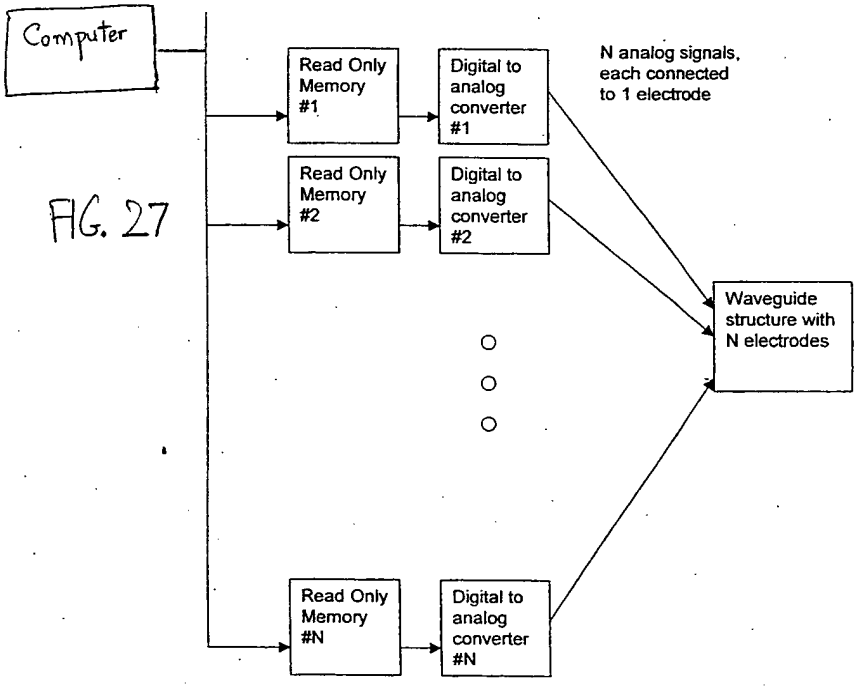


FIG. 27



10055450 "09/10/01

FIG. 28

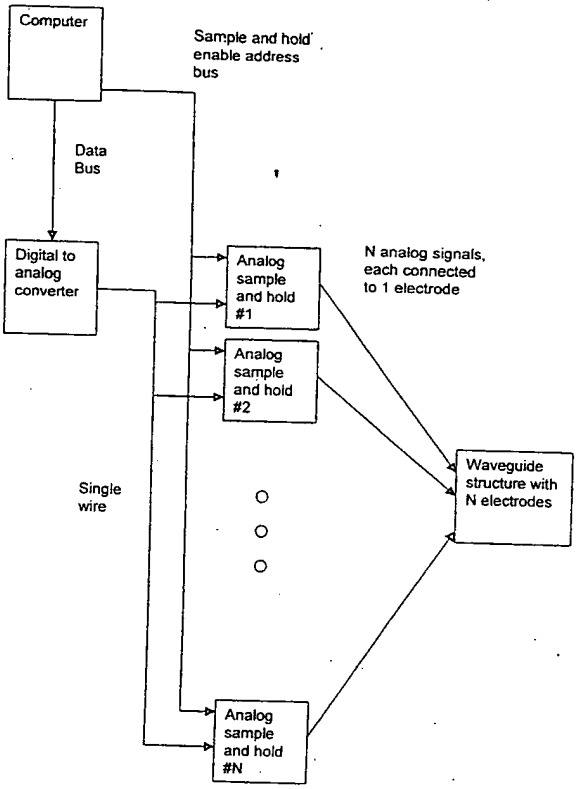
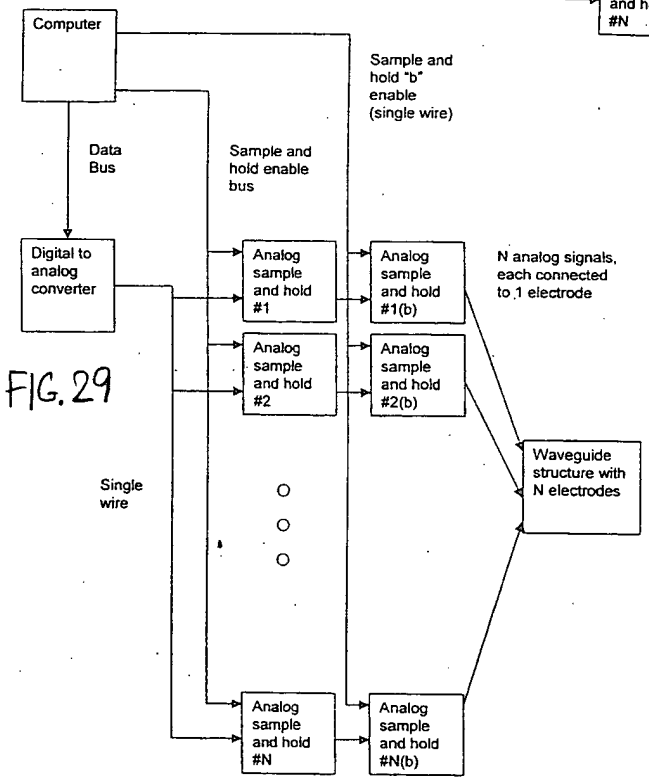


FIG. 29



1200116 - 5th Sheet